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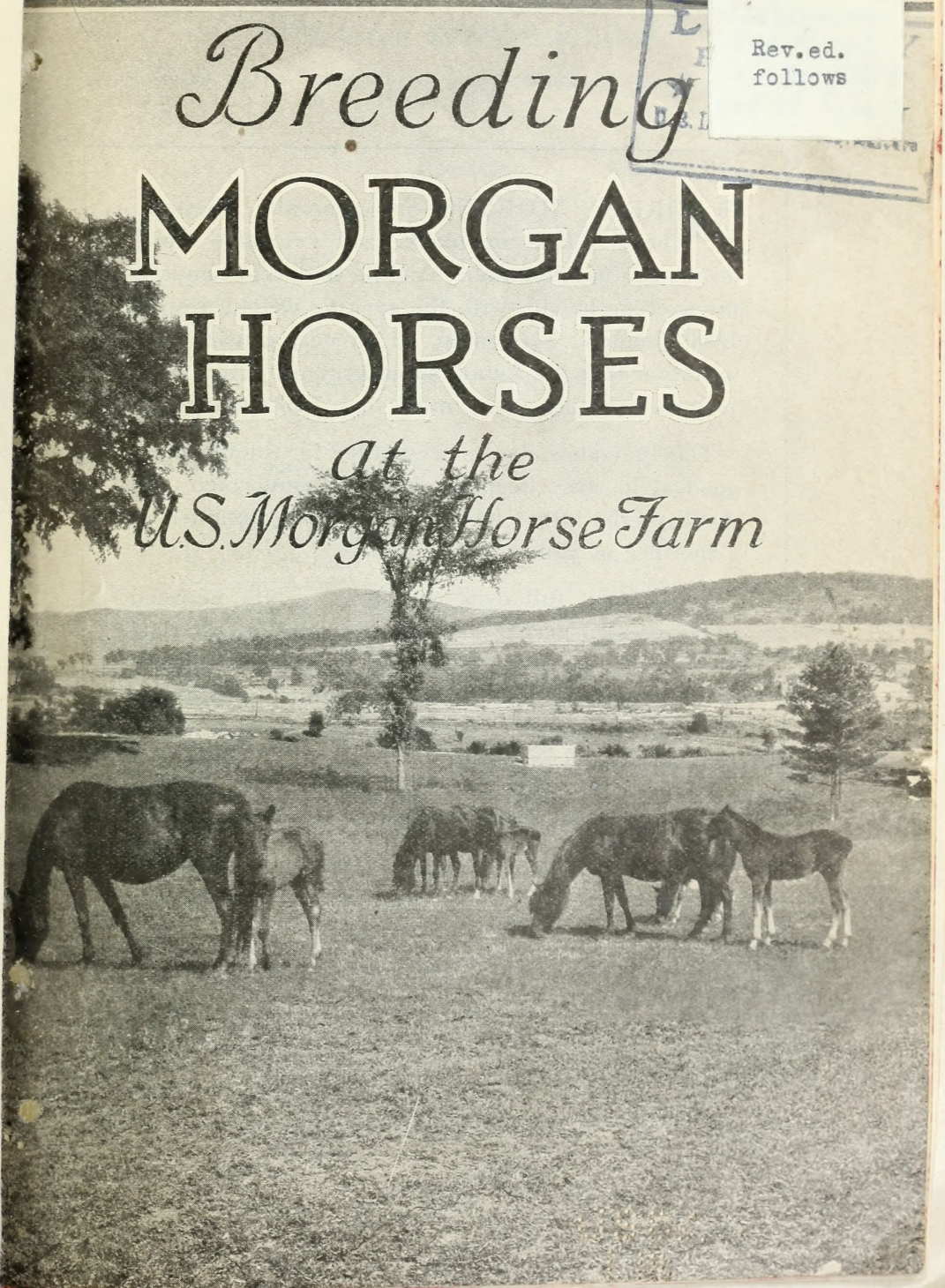
Breeding MORGAN HORSES at the U.S. Morgan Horse Farm



MORGAN HORSES are generally chestnut, brown, bay, or black, and extensive white marks are not common. A little under 15 hands is the average height, with the average weight around 1,000 pounds; but, as in all breeds, considerable variation is to be found, some very attractive individuals weighing rather more than 1,200 pounds.

This breed has always been noted for smooth lines, good style, easy keeping qualities, endurance, and docility—the latter, however, not being obtained at a sacrifice of ambition or courage.

Small ears, full eyes with great width between them, crested necks, well-sprung ribs with the last one close to the point of the hip, deep barrels, fairly level croups, full quarters, and enduring legs and feet are the qualities that have made Morgan horses famous for a century.

Washington, D. C. Issued November, 1921; revised September, 1923

BREEDING MORGAN HORSES AT THE U. S. MORGAN HORSE FARM.

H. H. Reese, *Animal Husbandman, Animal Husbandry Division, Bureau of Animal Industry.*

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FOUNDATION OF THE BREED.

THE Morgan breed of horses was established by a single stallion whose potency was so great that he left many descendants that looked and acted like him even after his blood had been much diluted. This stallion was Justin Morgan. During his early life he was the property of a school-teacher by that name, who lived near Randolph, Vt. Justin Morgan was foaled about 1793 and died in 1821.

According to the meager records available, Justin Morgan was a small but powerful and quick horse, standing considerably under 15 hands. It is said that he could outwalk, outrun, or outpull any of the horses in his section of the country. Very little is definitely known of his ancestry. One investigator collected evidence showing that he was sired by the Thoroughbred stallion True Briton, also called Beautiful Bay, a horse that traced in direct male line to Byerly Turk, and had many other traces of Arabian blood. Another investigator contends that he was sired by a Dutch horse, which in turn came from Arabian stock. Which of these theories is correct is not important to-day. The presence of only five lumbar vertebræ in many Morgans (discussed later) supports both theories of Arabian foundation.

EARLY PROGENITORS.

Practically all the present-day Morgans trace to three of Justin Morgan's sons, namely, Sherman Morgan 5 [1], Woodbury Morgan 7, and Bulrush Morgan 6. Sherman Morgan became known especially through his son, Black Hawk 20. The Billy Root 9 strain, as well as other good families, also comes from him. Woodbury Morgan is best known through Green Mountain Morgan 42, or, as he was called, Hale's Green Mountain Morgan. This stallion won the highest premiums at the State fairs of Ohio, Michigan, and Kentucky in 1853, and the first premium at the Vermont State Fair in 1854, as well as

[1] Numbers appearing after names of horses are their registration numbers in the American Morgan Horse Register.

many other premiums. The Bulrush blood is probably best known to-day through the maternal line of Peters Morgan 405, in which there are two traces. Ethan Allen 2d 406, the son of Peters Morgan, is discussed later.

DIFFUSION OF MORGAN BLOOD.

For many years the breed flourished. Morgans were used practically to the exclusion of other horses in the New England States until a craze for trotting speed struck the country, and much of the best Morgan stock was then mixed with trotting blood. This resulted, in many cases, in the loss of the beautiful form and quality of

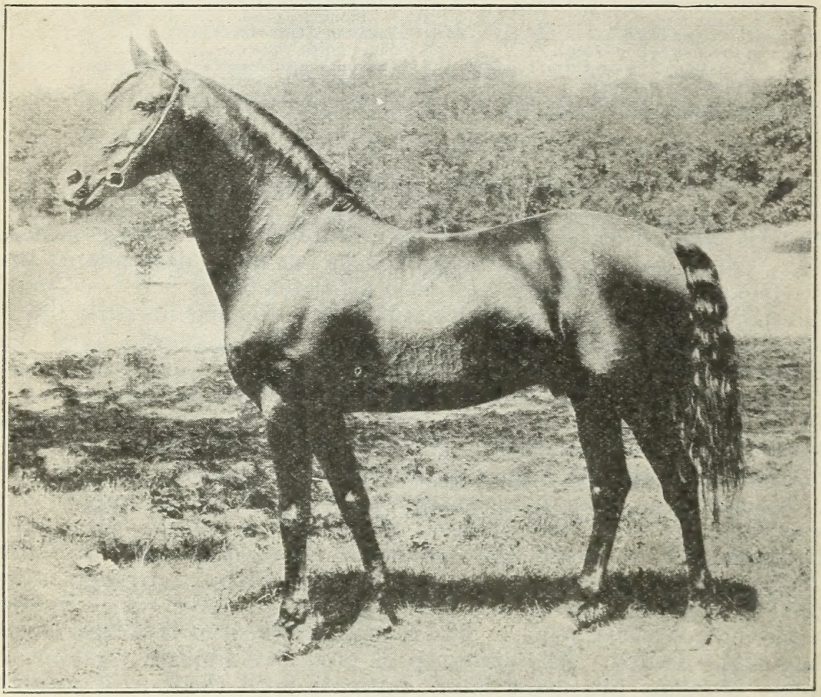

FIG. 1.—General Gates 666. Morgan stallion for many years at head of stud at U. S. Morgan Horse Farm.

the Morgan and did not give the breed the reputation for producing trotting speed that was due it. Prominent writers have contended that the Morgan added stamina to certain trotting-horse families, for which the Morgan breed deserves considerable credit.

In the early days many high-class Morgan stallions and mares were purchased at attractive prices and taken to other sections of the country, and, while a few scattering studs were bred pure in their new locations, many of them were absorbed by the Standardbred and the Kentucky Saddle Horse breeds. The identify of others was lost, not because of a lack of ability to improve the stock in their new surroundings, but because definite breeding records were not kept and repeated transfers of ownership occurred.

MOVEMENT TO CONSERVE BEST BLOOD.

This diluting and scattering of valuable Morgan blood went on for many years with little serious thought given to it. At least no definite collective action was taken until a comparatively few years ago, when several public-spirited men, who knew personally of the many meritorious qualities of the Morgan horse, made an effort to preserve the best specimens of the breed. In 1906 the United States Department of Agriculture and the Vermont State Experiment Station were authorized to assemble a small band of Morgan mares at the station farm near Burlington, which formed the beginning of a permanent project to conserve and perpetuate the best of the breed.

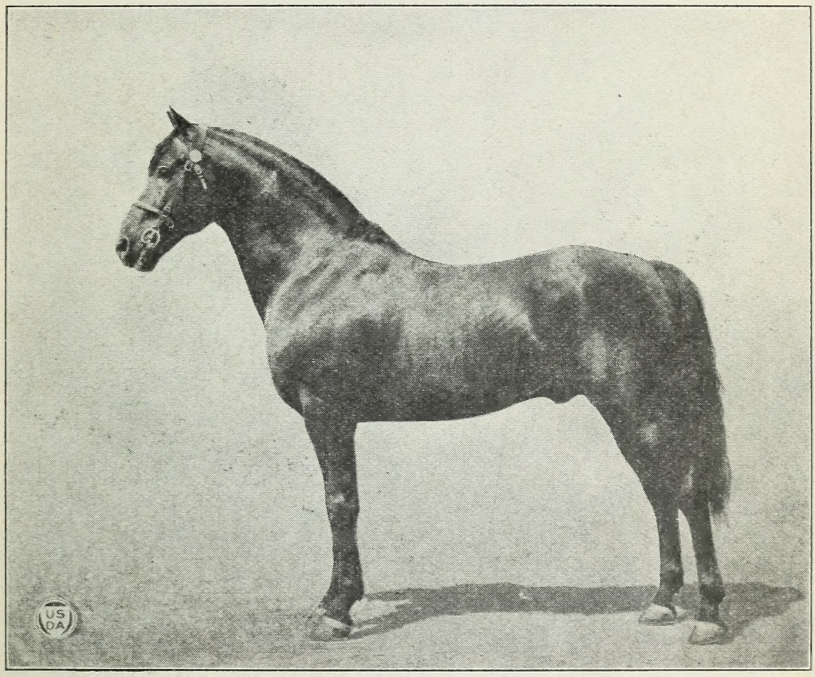

FIG. 2.—Troubadour of Willowmoor 6459. Sire of many young Morgans at U. S. Morgan Horse Farm. (Photograph taken at end of breeding season.)

ORIGIN OF U. S. MORGAN HORSE FARM.

The late Col. Joseph Battell, of Middlebury, Vt., had long been a great admirer of Morgan horses and had raised many high-class horses of this breed at his Breadloaf Stock Farms. Colonel Battell was also the founder of the American Morgan Register, a work which took up the authentic recording of Morgan blood lines at a point where D. C. Linsley, also of Middlebury, left off. The movement to keep together the best Morgan blood appealed to Colonel Battell, and he gave to the United States Department of Agriculture a farm of 400 acres 2 miles north of Middlebury, in the town of Weybridge. The gift put the work on a much more substantial foundation and gave greater opportunity in the way of pasture and equipment for the care of the breeding stock.

The stock from the Burlington station, as well as new purchases, were taken to the Battell farm in Weybridge in 1907, and this line of breeding has since been conducted there. The farm, at the donor's request, was officially named "The U. S. Morgan Horse Farm." In 1908 Colonel Battell added by deed to the U. S. Morgan Horse Farm another tract of land, known as the Cotton farm, which adjoined the original tract and contained about 35 acres, together with a house and two barns. In 1917 about 550 acres adjoining the original tract were purchased, so that the farm now consists of approximately 1,000 acres.

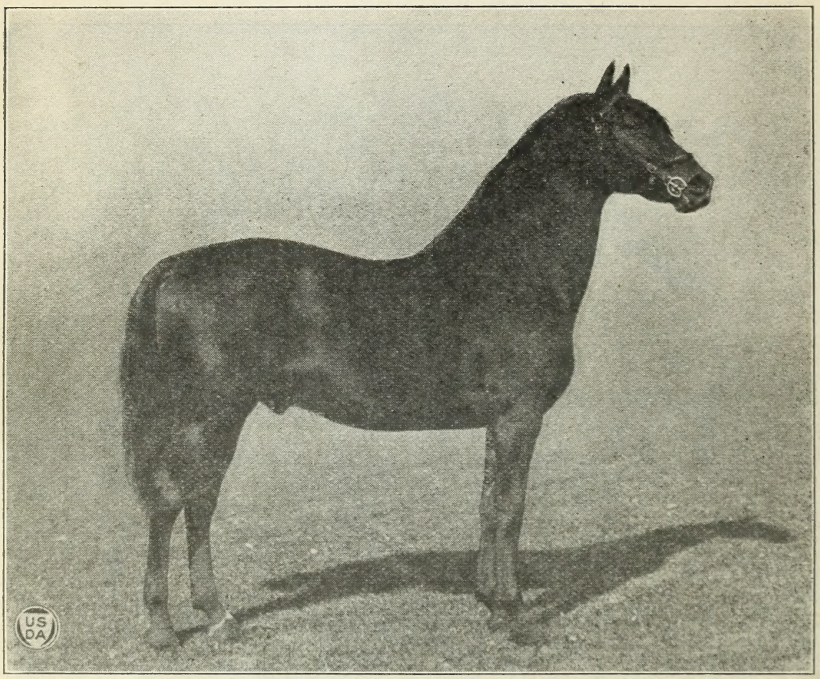

FIG. 3.—Bennington 5693. Morgan stallion bred at the U. S. Morgan Horse Farm. Sire of fine saddle types.

BREEDING STOCK PURCHASED.

Those in charge of the U. S. Morgan Horse Farm have spared no effort in tracing the descendants of the best of the Morgans sold in the early days and sent from New England to other sections of the country. They have obtained stock in Kentucky, Kansas, Texas, New York, Washington, Iowa, Rhode Island, New Hampshire, and Illinois, as well as in the native State of Vermont. Private stallions have also been liberally patronized, the whole effort being to get into the Government stud the very best Morgan blood in the country.

NOTED ANCESTORS OF U. S. MORGAN HORSES.

Short statements follow of a few of the noted Morgan stallions from which the breeding stock on the U. S. Morgan Horse Farm descended:

Black Hawk 20 was renowned for his speed and great beauty. He often participated in trotting events and history has it that he never was beaten. He was used in the stud mainly after coming to Bridport, Vt. J. H. Sanders, in the Breeders' Gazette of April, 1891, said:

> We run up against this Black Hawk family in so many unexpected places in combination with other strains . . . . that we are compelled to recognize him as a stallion of marked prepotency as a sire and one in whose descendants the capacity and disposition to trot fast exist to a remarkable degree.

Many sons of Black Hawk sold at high prices. Wherever they went they were appreciated, and from them sprang families of sur-

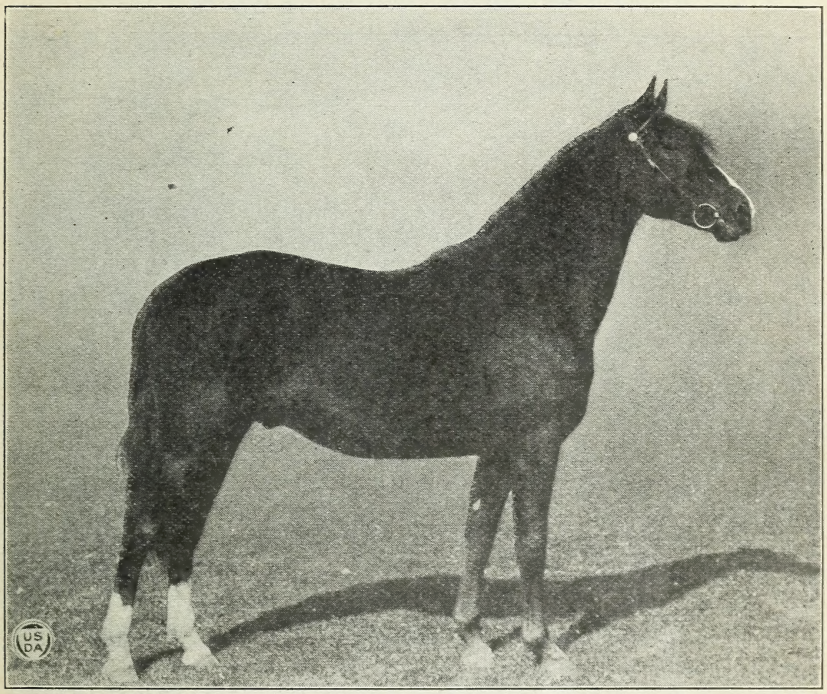

FIG. 4.—Mansfield. A very promising 3-year-old stallion. Sire, Bennington 5693; dam, Artemisia 02731.

passing excellence and the highest adaptability for the general purposes of business and social life. Black Hawk was the grandsire of Indian Chief 538, a noted show horse and sire of show horses, prominent among which was Lady de Jarnette. Indian Chief blood is conspicuous in many saddle-horse pedigrees.

Ethan Allen 50, a son of Black Hawk, was a bay horse with white marks, with a harness record of 2.25½ and with running mate to pole of 2.15. Mr. Wallace, in Wallace's Monthly, wrote of him:

> Of all the horses that have been favorities with the American people, no one has ever approximated the popularity of Ethan Allen. His remarkable beauty, his wonderful speed, his perfect action, and above all his kind and gentle disposition made him the admiration and pet of everybody.

He left a large number of descendants that had extreme speed, but he is best remembered to-day in Morgan pedigrees as the sire of Daniel Lambert 62 and as the sire of the dam of Ethan Allen 2d 406.

Daniel Lambert 62, probably the greatest progenitor of speed in the Morgan breed, was foaled in 1858 and died in 1889 at Weybridge, Vt., on what is now the U. S. Morgan Horse Farm. According to Col. Joseph Battell, who owned Daniel Lambert at the time of his death:

His race record was 2.42, made when 3 years old, his only season on the turf, and was at that time the stallion record for that age. He has to his credit 38 trotters and 1 pacer in the 2.30 list and is the sire of 36 sires of 122 trotters and 30 pacers, and is also the sire of dams of 107 performers, including some of the fastest, in the same list, to close of the season of 1904.

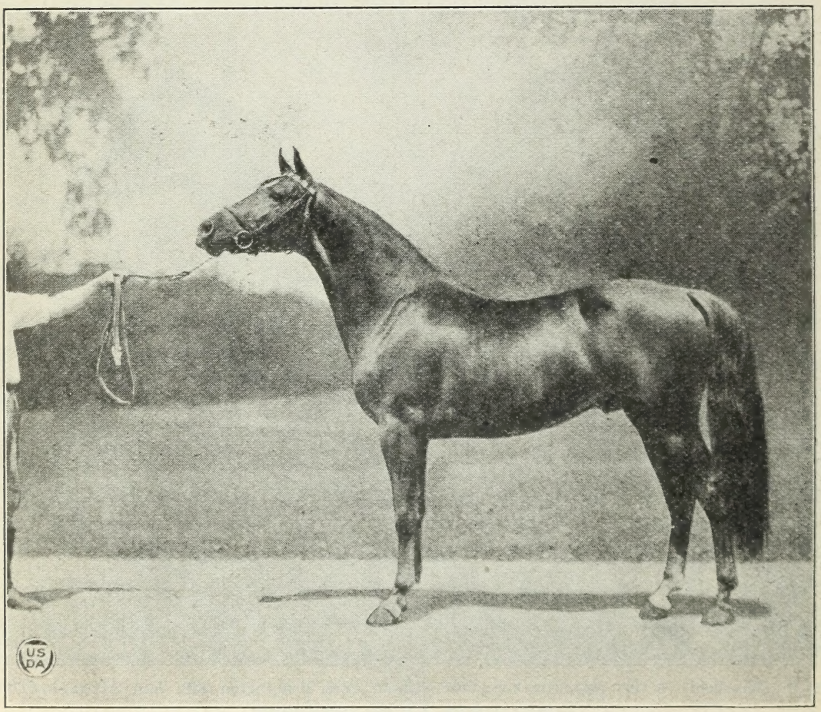

FIG. 5.—Meredith 7230. Morgan stallion foaled in 1919 and bred by U. S. Morgan Horse Farm.

Mr. Parlin, in the American Cultivator, stated:

No horse could be found that excelled him in beauty of form, ease and elasticity of action, elegance of style, and grandeur of poise, whether at rest or in motion. Few horses have ever lived that possessed greater power of stamping their offspring with the above characteristics and imparting the ability to perpetuate them through succeeding generations.

Denning Allen 74 was bred by Major Luxton, of Lexington, Ky., but was foaled the property of J. B. Bowman, of Lexington, and purchased by Colonel Battell, of Middlebury, Vt., on April 1, 1893. Mr. Bowman stated in his sale catalogue of 1878:

His dam, Rena, is a premium animal and has trotted inside of 3 minutes. Denning Allen is a horse of great promise, can trot in 2.45 without any special training, and has sired many splendid colts.

Denning Allen was awarded first premium for Morgan stallions 5 years old or over, and sweepstakes for Morgan stallions of any age, at the World's Columbian Exposition at Chicago, in 1893. He also received the very high compliment of being one of the eight horses selected by Max Lansberg, the noted sculptor, sent out by the German Government to take models of such American horses at the World's Fair as he thought desirable for use in the agricultural schools of Germany. Denning Allen was sired by Honest Allen 73, a son of Ethan Allen 50.

General Gates 666 was bred by the late Col. Joseph Battell. He was sired by Denning Allen 74 out of Fanny Scott. General Gates

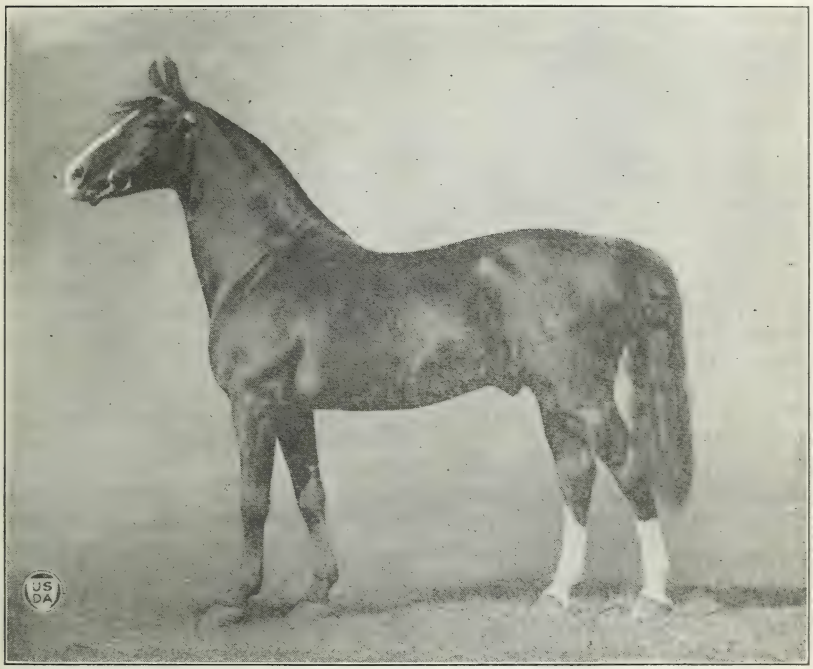

FIG. 6.—Scotland 6000. Morgan stallion sired by General Gates 666; dam, Highland Mary 01033.

was foaled May 6, 1894, and was a black, without white marks. Colonel Battell's catalogue says of him:

> In a remarkable degree he resembles Black Hawk, and to a remarkable degree also his colts have the graceful contour of form that was so marked in the colts of Black Hawk. General Gates has a fine trotting action, but was never trained for speed. He is a horse of the highest finish and extraordinary beauty.

He was a full brother to Lord Clinton, whose trotting race record was 2.08¾. General Gates was at the head of the Government stud for many years. He died in 1920. His best-known progeny were Ara Gates 082, winner of first prize at the Vermont State Fair in 1911 and 1912; Carrie Gates 0390 and Maggie Gates 01612, both winners at the St. Louis World's Fair; Helen Gates 01014, which sold for $500 as a yearling; Scotland 6000, winner of many pre-

miums; also Bennington 5693, Red Oak 5249, Linsley 7233, Castor 5833, and Gladstone 6922, which will be discussed later.

Ethan Allen 2d (Peters) 406 was a dark chestnut, by Peters Morgan 405, a son of Peters Vermont 403, the dam being by Ethan Allen 40. He was bred by A. W. Peters, of Bradford, Vt., who perpetuated the strain bearing his name that will ever be famous for true Morgan type and character.

Ethan Allen 3d (Borden's) 3987 was sired by Ethan Allen 2d 406, out of a dam by Cushing's Green Mountain 493. One of his owners, Maj. C. A. Benton, wrote of him:

> His disposition is so remarkable that my children enter his box stall and mount him without fear; his style is far beyond that of any Hackney I have seen; his endurance wonderful, and were he trained his speed could be materially increased.

The breeding qualities of Ethan Allen 3d were probably not fully appreciated until after his death, due largely to the fact that he had a very limited opportunity in the stud. In the last few years his sons and daughters have been prominent winners in Morgan classes.

Sir Ethan Allen 6537, a son of Ethan Allen 3d 3987, has twice been grand champion Morgan stallion at the Vermont State Fair, and his son Sealect was reserve to him in 1922. Sir Ethan Allen was second to Troubadour of Willowmoor 6459 at the 1919 International Live Stock Exposition at Chicago. Evelyn 0684, a daughter, has won many prizes, especially under saddle. Artemisia 02731, a daughter of Ethan Allen 3d, has won repeatedly, and her colts have won, prominent of which were Ajax 5302 and Anjou, discussed elsewhere. Laura Jay 01457 is another daughter.

Laura Jay won the Morgan mare class at the 1919 "International." This mare has also won several prizes, including championships, at the Vermont State Fair, as well as at the Eastern States Exposition, to say nothing of smaller shows. Laura Jay was purchased by the U. S. Morgan Horse Farm in 1921. She foaled two colts at the farm before her death in 1922. She is the dam of Ruth 03716, a U. S. Morgan Horse Farm brood mare. Ruth won the blue in her class at the Vermont State Fair in 1916. Reynard 5624, the sire of Ruth, has many winnings to his credit, including grand champion Morgan stallion at the Vermont State Fair in 1913, and the farm also has an excellent prospect in a 2-year-old filly by him.

Lyndon 5080, a full brother to Reynard 5624, has won repeatedly at the Vermont State Fair, and he is the sire of Lady Lyndon 03342, one of the farm's brood mares. Lady Lyndon's dam is sired by Bob Morgan 4549, a stallion of approved type and breeding, and a former consistent winner at shows where Morgans participated. Bob Morgan's blood is also represented at the farm by Babe 089, the dam of Castor and Eudora 0672; by Troubadour of Willowmoor 6459, whose dam is by Bob Morgan; and by the get of Donlyn 5849, whose sire, Donald 5224, was by Bob Morgan. Donlyn has taken many prizes at the Vermont State Fair and won distinction in 1912 by being awarded the blue ribbon in three distinct classes, namely, for stallion in hand, for stallion under saddle, and for stallion in harness. He is also full brother to Donwindsor 6853, the grand champion Morgan stallion at the Vermont State Fair in 1915.

Headlight Morgan 4683 was grand champion Morgan stallion at the Kansas State Fair for several years. The farm has his blood in his daughter, Sunflower Maid 02410, his granddaughter, Mertilla

04048, and his grandsons Meredith 7230 and Nodaway 7236. Sunflower Maid's dam, Fanny P. 0747, was by Julian Morgan 4448, the sire of Roy Morgan 6013, a winner at the Philadelphia and western shows with his mate, Meteor Morgan 4459.

Meteor Morgan 4459 was also a winner in single classes at large shows, as well as a sire of winners in the West. Meteor Morgan's sire, Meteor 3840, won the Morgan harness class at the World's Fair at Chicago. The farm has this blood in granddaughters of Meteor Morgan, namely, Juno 03284, Klyona 03313, and Laurice 04043.

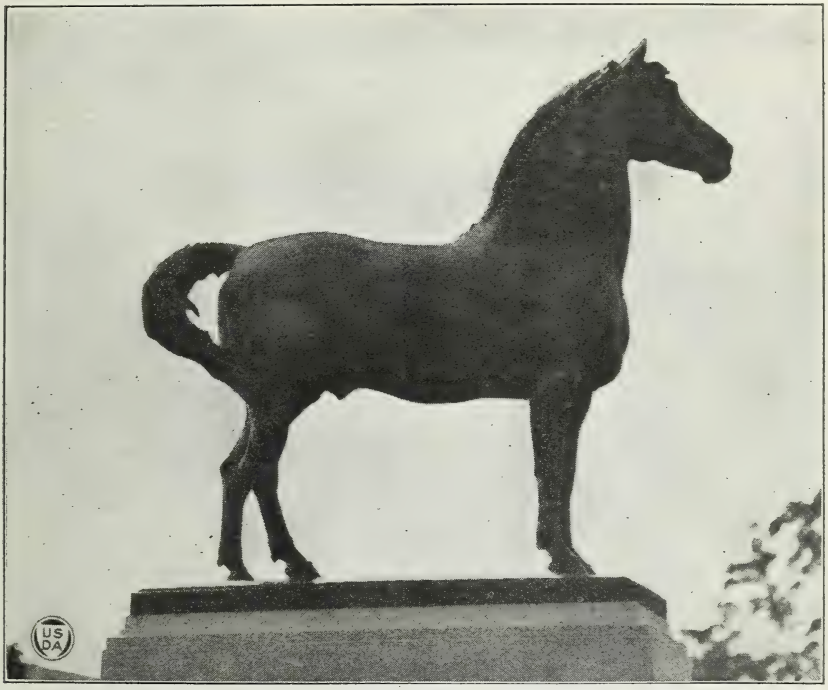

FIG. 7.—Statue of Justin Morgan on which are the words: "1921. Given by The Morgan Horse Club to the U. S. Department of Agriculture in memory of Justin Morgan who died in 1821."

MORGAN HORSE FARM PRIZE WINNERS.

Troubadour of Willowmoor 6459, the farm's premier stallion, won the Morgan stallion class at the 1919 International Live Stock Exposition with nine contestants. McMahon 6900, sired by Scotland 6000, out of a mare by General Gates 666, was grand champion Morgan stallion at the 1920 Vermont State Fair. Heather 03213, a full sister to McMahon, was grand champion Morgan mare at the 1916 Vermont State Fair.

In 1920 a suckling foal, bred on the remount plan by the United States Department of Agriculture, and sired by Bennington 5693, a U. S. Morgan Horse Farm product, was reserve champion at the Vermont State Fair and grand champion Morgan stallion at the Woodstock (Vt.) fair. Another suckling foal, also bred on the remount plan and sired by Bennington, was second in his class at the State fair and reserve champion at Woodstock. These foals also

won first and second in the remount class at Woodstock. Foals by Troubadour of Willowmoor 6459 won the remount class at the Addison County fair. The get of Scotland 6000 have also won many prizes at the latter fair.

These winnings are of added significance when it is recalled that, with the exception of the Government's exhibit at Chicago, the stock owned by the U. S. Morgan Stock Farm has not been shown in competition. All the other prizes have been won, with one exception, by the stock belonging to individuals who breed only one or two mares a year.

Privately owned Morgans, sired by U. S. Morgan Horse Farm stallions, made a good showing at the Vermont State Fair in 1921.

FIG. 8.—Dolly 02949. Morgan mare placed sixth in the 1920 endurance ride. This mare inherits her color from Highland Gray 94, her grandsire on her dam's side.

Willowmoor, a 5-year-old bay gelding by Troubadour of Willowmoor, won first in the Morgan saddle class, first in the open saddle class, and first in the combination class. This made a total of six first prizes for the horse during that season. He won a blue ribbon each time shown, and had had only limited training. Adelaide 04038, by Snoqualmie 5783, and Don, by Donlyn 5849, won the tandem and pair classes, as well as taking seconds in other classes. A colt by Troubadour of Willowmoor 6459 won the remount class, and was placed second in the class for 1921 Morgan colts.

In the open saddle class for horses 14.2 hands or over, all three prizes were won by geldings sired by stallions from the U. S. Morgan Horse Farm. First prize went to Willowmoor, as noted above; second went to Don, by Donlyn; and third to Hero, by Bennington.

TROUBADOUR OF WILLOWMOOR—6459 A. M. R.

TROUBADOUR 5125.

Jubilee de Jarnette 3854.

Ju

L

Bird Pepper.

P

l.

n 5 ..... Justin Morgan 1.

ltonian.

L

y.

ltonian.

) ..... Sherman Morgan 5 ..... Justin Morgan 1.

..... Mambrino.

..... Stockholms American Star ... Duroc ..... Imp. Diomed.

) ..... Sherman Morgan 5 ..... Justin Morgan 1.

rgan 7 ..... Justin Morgan 1.

rgan 7 ..... Justin Morgan 1.

rgan 7 ..... Justin Morgan 1.

n 30 ..... Woodbury Morgan 7 ..... Justin Morgan 1.

an 5 ..... Justin Morgan 1.

n 6 ..... Justin Morgan 1.

FANNIE 2D.

Bob Morgan 4549.

E 1.

1.

1.

1.

1.

B 1.

6 ..... Woodbury Morgan 7 ..... Justin Morgan 1.

an 5 ..... Justin Morgan 1.

n 30 ..... Woodbury Morgan 7 ..... Justin Morgan 1.

se.

n 30 ..... Woodbury Morgan 7 ..... Justin Morgan 1.

n 30 ..... Woodbury Morgan 7 ..... Justin Morgan 1.

..... Gifford Morgan 30 ..... Woodbury Morgan 7 ... Justin Morgan 1.

79 ..... Sherman Morgan 5 ..... Justin Morgan 1.

..... Bulrush Morgan 6 ..... Justin Morgan 1.

rgan 7 ..... Justin Morgan 1.

an 6 ..... Justin Morgan 1.

1.

rgan 7 ..... Justin Morgan 1.

1.

1.

E ..... Justin Morgan 1.

gan 5 ..... Justin Morgan 1.

..... Justin Morgan 1.

se 1710 ..... Bailey Horse 36 ..... Woodbury Morgan 7 ..... Justin Morgan 1.

Harrison Belle, by Harrison Chief.

PEDIGREE OF TROUBADOUR OF WILLOWMOOR 6459.

- TROUBADOUR OF WILLOWMOOR—6459 A. M. R.
  - TROUBADOUR 5125.
    - Jubilee de Jarnette 3854.
      - Jubilee Lambert 1476
        - Daniel Lambert 62
          - Ethan Allen 50
            - Black Hawk 20
              - Sherman Morgan 5
                - Justin Morgan 1.
              - Fanny Cook
                - Abdallah
                - Mambrino.
                - Chestnut mare
                - Stockholms American Star
                - Duroc
                - Imp. Diomed.
          - Harvey mare
            - Taft horse 1296
              - Black Hawk 20
                - Sherman Morgan 5
                - Justin Morgan 1.
              - Black Hawk 20
                - Sherman Morgan 5
                - Justin Morgan 1.
        - Lady de Jarnette
          - Indian Chief 538
            - Bloods Black Hawk 89
              - Ned Forrest
                - Young Bashaw
                - Imp. Grand Bashaw.
              - Lou Berry
                - Fan
                - Jersey Messenger
                - Dove
                - All Fours.
                - Fib
                - Virginia Whip
                - Imp. Whip.
          - Belle
            - Littons Warfield
              - Lewis Warfield
                - Cracker
                - Boston.
            - Mare by
              - Skinner's Tom Hal
                - Davy Crockett 603. (Blackburn's.)
    - Bird Pepper.
      - Prospect 122
        - Blood Chief 91
          - Bloods Black Hawk 89
            - Black Hawk 20
              - Sherman Morgan 5
                - Justin Morgan 1.
            - Miss Duncan
              - Scotts Highlander
                - Hunts Highlander.
              - Mare by
                - Trumpeter
                - Director.
                - Timoleon
                - Sir Archy.
        - Susan Jones
          - Ashland Chief
            - Mambrino Chief.
          - Kate
            - Bloods Black Hawk 89
              - Black Hawk 20
                - Sherman Morgan 5
                - Justin Morgan 1.
            - Queen
              - One Eyed Copperbottom.
      - Lady Blackwood
        - Blackwood
          - Alexanders Norman 2350
            - Morse Horse 627
              - European 361.
          - Bay mare
            - Mambrino Chief.
        - Lady Harper
          - Boaz 2057
            - Superb 1538
              - Ethan Allen 50
                - Black Hawk 20
                - Sherman Morgan 5
                - Justin Morgan 1.
              - Mischief
                - Harris Hamiltonian
                - Bishop's Hamiltonian.
            - Bay mare
              - Young Columbus 1334
                - Columbus 1156.
                - Black Maria
                - Smith's Liberty.
              - Mischief
                - Harris Hamiltonian
                - Bishop's Hamiltonian.
          - Wilful
            - Colonel Moulton 1472
              - Daniel Lambert 62
                - Ethan Allen 50
                - Black Hawk 20
                - Sherman Morgan 5
                - Justin Morgan 1.
                - Fanny Cook
                - Abdallah
                - Mambrino.
                - Chestnut mare
                - Stockholms American Star
                - Duroc
                - Imp. Diomed.
                - Black Hawk 20
                - Sherman Morgan 5
                - Justin Morgan 1.
              - Mare by
                - Bigelow's Black Hawk 1058
                - Gifford Morgan 30
                - Woodbury Morgan 7
                - Justin Morgan 1.
- FANNIE 2D.
  - Bob Morgan 4549.
    - Ethan Allen 2d 406
      - Peters Morgan 405
        - Peters Vermont 403
          - Wood Horse 402
            - Green Mountain Morgan 42
              - Gifford Morgan 30
                - Woodbury Morgan 7
                - Justin Morgan 1.
            - Mare by
              - Simonds Horse.
          - Jennie
            - Green Mountain Morgan 42
              - Gifford Morgan 30
                - Woodbury Morgan 7
                - Justin Morgan 1.
            - Phoebe
              - Tom Morgan.
        - Chestnut mare
          - Morgan Hunter 2d 342
            - Morgan Hunter 341
              - Gifford Morgan 30
                - Woodbury Morgan 7
                - Justin Morgan 1.
              - Mare by
                - Gifford Morgan 30
                - Woodbury Morgan 7
                - Justin Morgan 1.
            - Chestnut mare by
              - Colby Horse 779
                - Sherman Morgan 5
                - Justin Morgan 1.
              - Mare by
                - Bulrush Morgan 6
                - Justin Morgan 1.
          - Bay mare
            - Gen. Hibbard 29
              - Woodbury Morgan 7
                - Justin Morgan 1.
            - Bay mare by
              - Bulrush Morgan 6
                - Justin Morgan 1.
      - Chestnut mare
        - Ethan Allen 50
          - Black Hawk 20
            - Sherman Morgan 5
              - Justin Morgan 1.
        - Chestnut mare
          - Green Mountain Morgan 42
            - Gifford Morgan 30
              - Woodbury Morgan 7
                - Justin Morgan 1.
            - Chestnut mare
              - Tom Morgan.
      - Green Mountain 493 (Cushings.)
        - Green Mountain Morgan 42
          - Gifford Morgan 30
            - Woodbury Morgan 7
              - Justin Morgan 1.
        - Bay mare
          - Billy Root 9
            - Sherman Morgan 5
              - Justin Morgan 1.
            - Daughter of
              - Mare by
                - Justin Morgan 1.
          - Crane mare
            - Royal Morgan 11
              - Sherman Morgan 5
                - Justin Morgan 1.
              - Aldrich mare
                - Justin Morgan 1.
            - Mare by
              - Hubbard Horse 1719
                - Bailey Horse 36
                - Woodbury Morgan 7
                - Justin Morgan 1.
    - Brown mare
      - Mare by
        - Black Morgan 810
          - Green Mountain Bachup 16
            - Sherman Morgan 5
              - Justin Morgan 1.
          - Gorham mare
            - Wilder colt
              - Batchelder Horse 17
                - Sherman Morgan 5
                - Justin Morgan 1.
    - Bay mare.
      - Ethan Allen 3d 3987
        - Ethan Allen 2d 406
          - Peters Morgan 405
            - Peters Vermont 403
              - Wood Horse 402
                - Green Mountain Morgan 42
                - Mare by
                - Simond's Horse.
              - Jennie
                - Green Mountain Morgan 42
                - Phoebe
                - Tom Morgan.
            - Chestnut mare
              - Morgan Hunter 2d 342
                - Morgan Hunter 341
                - Gifford Morgan 30
                - Woodbury Morgan 7
                - Justin Morgan 1.
                - Mare by
                - Gifford Morgan 30
                - Woodbury Morgan 7
                - Justin Morgan 1.
              - Mare by
                - Colby Horse 779
                - Sherman Morgan 5
                - Justin Morgan 1.
                - Mare by
                - Bulrush Morgan 6
                - Justin Morgan 1.
              - Bay mare
                - Gen. Hibbard 29
                - Woodbury Morgan 7
                - Justin Morgan 1.
                - Bay mare by
                - Bulrush Morgan 6
                - Justin Morgan 1.
          - Chestnut mare
            - Ethan Allen 50
              - Black Hawk 20
                - Sherman Morgan 5
                - Justin Morgan 1.
            - Chestnut mare
              - Green Mountain Morgan 42
                - Gifford Morgan 30
                - Woodbury Morgan 7
                - Justin Morgan 1.
              - Chestnut mare
                - Tom Morgan.
          - Green Mountain 493 (Cushings.)
            - Green Mountain Morgan 42
              - Gifford Morgan 30
                - Woodbury Morgan 7
                - Justin Morgan 1.
            - Bay mare
              - Billy Root 9
                - Sherman Morgan 5
                - Justin Morgan 1.
                - Daughter of
                - Mare by
                - Justin Morgan 1.
              - Crane mare
                - Royal Morgan 11
                - Sherman Morgan 5
                - Justin Morgan 1.
                - Aldrich mare
                - Justin Morgan 1.
                - Mare by
                - Hubbard Horse 1719
                - Bailey Horse 36
                - Woodbury Morgan 7
                - Justin Morgan 1.
          - Brown mare
            - Charlie Watson 813
              - Black Morgan 810
                - Green Mountain Bachup 16
                - Sherman Morgan 5
                - Justin Morgan 1.
                - Gorham mare
                - Wilder Colt
                - Batchelder Horse 17
                - Sherman Morgan 5
                - Justin Morgan 1.
              - Chestnut mare
                - Comet 682
                - Billy Root 9
                - Sherman Morgan 5
                - Justin Morgan 1.
                - Daughter of
                - Mare by
                - Justin Morgan 1.
                - Crane mare
                - Royal Morgan 11
                - Sherman Morgan 5
                - Justin Morgan 1.
                - Aldrich mare
                - Justin Morgan 1.
                - Mare by
                - Hubbard Horse 1719
                - Bailey Horse 36, by Woodbury Morgan 7, by Justin Morgan 1.
                - Mare by
                - Wilson Horse 723
                - Royal Morgan 11
                - Sherman Morgan 5
                - Justin Morgan 1.
                - Aldrich mare
                - Justin Morgan 1.
                - Mare by
                - Batchelder Horse 17
                - Sherman Morgan 5
                - Justin Morgan 1.
            - Brown mare
              - Tiger 3438
                - Black Hawk 1064 (Baldwin's.)
                - Black Hawk 20
                - Sherman Morgan 5
                - Justin Morgan 1.
                - Mare by
                - Goldpin 787
                - Vt. Morgan Champion 13
                - Sherman Morgan 5
                - Justin Morgan 1.
                - Mare by
                - Sherman Morgan 5
                - Justin Morgan 1.
                - Daughter of
                - Mare by
                - Justin Morgan 1.
              - Mare by
                - Dr. Abel Brown Horse 1729
                - Billy Root 9
    - Nell
      - Green Mountain 493 (Cushings.)
        - Green Mountain Morgan 42
          - Gifford Morgan 30
            - Woodbury Morgan 7
              - Justin Morgan 1.
        - Bay mare
          - Billy Root 9
            - Sherman Morgan 5
              - Justin Morgan 1.
            - Daughter of
              - Mare by
                - Justin Morgan 1.
          - Crane mare
            - Royal Morgan 11
              - Sherman Morgan 5
                - Justin Morgan 1.
              - Aldrich mare
                - Justin Morgan 1.
            - Mare by
              - Hubbard Horse 1719
                - Bailey Horse 36
                - Woodbury Morgan 7
                - Justin Morgan 1.
      - Watson mare
        - Comet 682
          - Billy Root 9
            - Sherman Morgan 5
              - Justin Morgan 1.
            - Daughter of
              - Mare by
                - Justin Morgan 1.
          - Crane mare
            - Royal Morgan 11
              - Sherman Morgan 5
                - Justin Morgan 1.
              - Aldrich mare
                - Justin Morgan 1.
            - Mare by
              - Hubbard Horse 1719
                - Bailey Horse 36
                - Woodbury Morgan 7
                - Justin Morgan 1.
        - Bay mare
          - Royal Morgan 11
            - Sherman Morgan 5
              - Justin Morgan 1.
            - Aldrich mare
              - Justin Morgan 1.
          - Marshall mare
            - Batchelder Horse 17
              - Sherman Morgan 5
                - Justin Morgan 1.

Horse Farm. First prize went to [illegible]
second went to Don, by Donlyn; and third to Hero, by Bennington.

Don and Hero are out of mares of unknown breeding. A yearling colt (Mansfield 7255) by Bennington, out of Artemisia 02731, was reserve champion Morgan stallion. This colt was reserve champion as a foal in the previous year as well. Both the colt and Artemisia are now the property of the U. S. Morgan Horse Farm.

At the 1921 Addison County (Vt.) fair the American Remount Association offered prizes for foals of 1921 sired by Government-owned stallions. The first and second prizes went to colts by Troubadour of Willowmoor, and the third prize was won by a colt by Scotland.

In the ladies' saddle class a 5-year-old gelding by Troubadour of Willowmoor won, and a 6-year-old mare by Snoqualmie won the ladies' driving class. A mare by Scotland was second in the ladies' driving class and a gelding by Donlyn was second in the ladies' saddle class. In the men's saddle class first and second went to horses by Bennington and General Gates, respectively. A mare

FIG. 9 —Morgan horses exhibited at the unveiling of the statue to Justin Morgan, October 1, 1921, at U. S. Morgan Horse Farm. Horse at left is Troubadour of Willowmoor 6459.

by General Gates won the roadster class, and the Morgan stallion class was won by McMahon 6900, a son of Scotland. In the yearling stallion class a grandson of Scotland won; a colt by Donlyn was second; and a colt by Troubadour of Willowmoor was third.

Public exhibitions of stock from the U. S. Morgan Horse Farm have been made at various times as follows: Addison County fair, Middlebury, Vt., 1907, 1908, 1909, 1920, 1921, 1922. Vermont State Fair, White River Junction, Vt., 1907, 1908, 1920, 1921. Rutland County fair, Rutland, Vt., 1908. Valley fair, Brattleboro, Vt., 1908. Eastern States Exposition, Springfield, Mass., 1921.

DISTRIBUTION OF BREEDING STOCK.

The following stallions were distributed from the U. S. Morgan Horse Farm up to January 1, 1923:

DONALD 6483, brown, foaled 1910, sire General Gates 666; dam Harrison Belle, by Harrison Chief.

Cassius 5869, black, foaled 1909; sire Red Oak 5249; dam Lady Gates 01352, by General Gates 666, were shipped in March, 1911, to the island of Guam, together with four young mares. The Morgans have given satisfaction on the island, as shown by the following extracts from the report of the Guam Agricultural Experiment Station:

> The object of this importation was to test the adaptability of these pure-blood Morgans and their locally grown progeny to tropical conditions, to use the sires in the work of upgrading the inferior native ponies of the island, also to use the stock for station work purposes as much as practicable.
>
> The total of results obtained tend to indicate that the Morgan is comparatively well adapted to tropical conditions, . . . the mature individuals were apparently able within a short period to endure continuous and relatively hard work.
>
> Only grade offspring of the first generation have been produced so far in the work of upgrading the native stock. Of the small number raised each individual shows a very marked improvement in size and conformation over the pure native pony; is apparently able to subsist on the native pasture alone; and is otherwise equal in hardiness to the native parent.

Edmunds 6581, bay, foaled 1911; sire General Gates 666; dam Polly B. 02104, by Gilling 3869, was purchased by the Agricultural College of Porto Rico in 1912. In the spring of 1922 negotiations were again opened by the college and as a result two more registered Morgans were shipped to the island. These are—

Navarre 7238, brown, foaled 1920; sire Donlyn 5849; dam Fanny P. 0747, by Julian Morgan 4448; and the mare Nadri 04056, sired by Troubadour of Willowmoor 6459 out of Grief 03188, by Snoqualmie 5783.

The officials are well pleased with the animals and are enthusiastic regarding the possibilities of the Morgans for building up the native stock. In a recent letter from Prof. F. R. Edwards, referring to the stallion Edmunds, he states, "Edmunds was sold to a large plantation on the south part of the island and did splendid work there." A late letter says "Navarre is easily the best horse in appearance on this end of the island."

Madison Lambert 6530, bay, foaled 1907; sire Lambert B. 5238; dam Jessie T. 01142, by Harlus, son of Cobden 1515, was used for a number of years for community breeding in North Carolina and gave very satisfactory service until an injury caused his death.

Red Oak 5249, bay, foaled 1906; sire General Gates 666; dam Marguerite 01635, by White River Morgan 482, was given in exchange to the Mountain Vale Ranch, of Rochelle, Tex., in 1917. After using him in the stud for a few years with satisfactory results, Mr. Sellman transferred Red Oak to the Agricultural and Mechanical College of Texas. He was shown at the Southwestern Exposition and Fat Stock Show, held at Fort Worth, Tex., in March, 1922, and captured the blue ribbon in the aged-stallion class. The judge at that time made the following statement: "The grand champion Morgan horse, Red Oak, is the finest animal I have had my eyes on in twenty years of judging. He would win first prize at any horse show in the world."

Donlyn 5849, bay, foaled 1909; sire Donald 5224; dam Chestnut 0407, by Billy Roberts 4550; together with the mare Jewel 03268, by General Gates out of Minnehaha 01760, by Troubadour 5125, and her stallion foal Trumpeter, by Troubadour of Willowmoor 6459, were included in a shipment of 11 Morgans exported to Japan in 1920.

These animals are doing exceedingly well in their new environment, as stated in recent letters.

Lucky, bay, foaled 1918; sire Hugo 7001; dam Eunice 0677, by General Gates 666, was shipped to the King Ranch, at Kingsville, Tex., in 1920.

Dewey 6481, bay, foaled 1910; sire General Gates 666; dam Mrs. Culvers, by Harrison Chief. Bred by the U. S. Morgan Horse Farm. Dewey was used in the remount work in Vermont under direction of the Department of Agriculture during the seasons of 1913, 1914, and 1915, and sired many excellent colts. It was while engaged in this work that he sired the registered mare Dolly, who secured sixth place in the 1921 endurance ride. He was then lent for community breeding in North Carolina in cooperation with the agricultural experiment station at West Raleigh, where he remained until transferred to the Remount Service of the War Department in 1921.

Fig. 10.—Red Oak 5249. Morgan stallion sired by General Gates 666; dam, Marguerite 01635. This stallion's head shows exceptional quality.

Linsley 7233, chestnut, foaled 1918; sire General Gates 666; dam Sunflower Maid 02401, by Headlight Morgan 4683. Bred by the U. S. Morgan Horse Farm and transferred to the Remount Service of the War Department in 1921. In the fall of 1921 his attendant received permission to show the stallion at the 1921 Kansas State Fair, and shortly afterwards forwarded the following telegram to his commanding officer: "Linsley won first in Morgan class and sweepstakes over all. Kansas State Fair considers him the finest Morgan horse in America."

Magistrate 7232, chestnut, foaled 1919; sire Sealskin 6500; dam Folly 03093, by Bennington 5693. Bred by the U. S. Morgan Horse Farm and transferred to the Remount Service of the War Department in 1921.

Melvin 7231, chestnut, foaled 1919; sire Scotland 6000; dam Sunflower Maid 02401, by Headlight Morgan 4683. Bred by the U. S. Morgan Horse Farm and transferred to the Remount Service of the War Department in 1921.

Langley 7229, chestnut, foaled 1918; sire Hugo 7001; dam Eudora 0672, by General Gates 666. Bred by the U. S. Morgan Horse Farm. Transferred to the Remount Service of the War Department in 1922.

Meredith 7230, chestnut, foaled 1920; sire Sealskin 6500; dam Helen Gates 01014, by General Gates 666. Bred by the U. S. Morgan Horse Farm and transferred to the Remount Service of the War Department in 1922.

Oakwood 7272, bay, foaled 1921; sire Troubadour of Willowmoor 6459; dam Folly 03093, by Bennington 5693. Bred by the U. S. Morgan Horse Farm and transferred to the Remount Service of the War Department in 1922.

Opportunity 7278, brown, foaled 1921; sire Success 6598; dam Laura Jay 01457, by Ethan Allen 3d 3987. Bred by the U. S. Morgan Horse Farm. Transferred in 1922, together with four mares, to go to

Fig. 11.—Brood mares and foals on pasture at U. S. Morgan Horse Farm.

a farm in Maryland, where the purchaser says Morgans will fill the need for an all-round horse for truck farming.

Orient 7273, bay, foaled 1921; sire Troubadour of Willowmoor 6459; dam Gertrude 0861, by General Gates 666. Bred by the U. S. Morgan Horse Farm and transferred to the Remount Service of the War Department in 1922.

Paige 7328, brown, foaled 1922, sire Troubadour of Willowmoor 6459; dam Dewdrop 0527, by General Gates 666. Bred by the U. S. Morgan Horse Farm. Transferred to the Cheyenne River Agency, S. Dak.

Patriot 7329, bay, foaled 1922; sire Troubadour of Willowmoor 6459; dam Gertrude 0861, by General Gates 666. Bred by the U. S. Morgan Horse Farm. Transferred, together with several young mares, to a section in the State of Washington where good light horses are very scarce.

Peru 7330, bay, foaled 1922; sire Troubadour of Willowmoor 6459; dam Ruth 03716, by Reynard 5624. Bred by the U. S. Morgan Horse

Farm. Transferred, together with two young mares, to a beginner in Morgan-horse breeding near Troy, N. Y., who believes Morgan horses have an economic place in his section.

PLUTO 7331, bay, foaled 1922; sire Troubadour of Willowmoor 6459; dam Folly 03093, by Bennington 5693. Bred by the U. S. Morgan Horse Farm. Transferred to a Vermont breeder.

SCOTLAND 6000, chestnut, foaled 1906; sire General Gates 666; dam Highland Mary 01033, by Lambert Chief 1489. Bred by Col. Joseph Battell, Middlebury, Vt. Transferred to the Remount Service of the War Department by the U. S. Morgan Horse Farm in 1922.

SUMMARY OF SALES.

In addition to the foregoing stallions, the following have been sold from the U. S. Morgan Horse Farm during the last few years:

Twenty-eight combination ride-and-drive Morgans; 14 double-harness Morgans, or 7 pairs; 18 Morgan brood mares; 10 single-harness Morgans; 3 Morgan stallions; 29 Morgan youngsters, too young to classify.

All these animals were not bred on the U. S. Morgan Horse Farm, 25 of them being owned by private individuals in the vicinity, for whom the farm acted as agent in disposing of their surplus stock.

These figures do not include nearly 100 remount colts purchased in Vermont during the last few years, all of which were sired by stallions from the U. S. Morgan Horse Farm. The contract price per head on these colts was $150 and they were not required to be broken, except to halter. As no fee was charged for the service of the stallions, this represents a revenue of nearly $15,000 to the farmers of Vermont, not to mention the hundreds of colts on which the Government's options were canceled and which were retained by the farmers

ENDURANCE OF THE BREED.

In the first of the official endurance rides, sponsored by various breed associations and individuals interested in horse improvement, which was held in 1919, Castor, the 800-pound registered Morgan, completed the ride in the second-best time, but owing to a slight accident which affected his condition score was awarded sixth place. Castor was bred by the U. S. Morgan Horse Farm and was foaled in 1909. He was sired by General Gates 666 out of Babe 089, by Bob Morgan. The following spring Castor was shipped to Norwich University, in Vermont, where he was prepared for the 1920 endurance ride. With an inexperienced cadet as rider for the first three days he made a good showing, drawing seventh place in the final awards.

Although not so fast as several in the next year's (1921) endurance ride, Castor made a consistent performance throughout, and carried the required 245 pounds (nearly one-third of his weight) without developing any leg trouble; and his temperature, respiration, pulse, and appetite demonstrated conclusively that he was up to the task and had been properly conditioned. His loss of only 12½ pounds during the ride was a remarkable part of his performance, especially considering the fact that he was by far the smallest horse in the test. One of the judges of the 1921 endurance ride said: "Justin Morgan was no doubt a remarkable horse, but I don't believe he had anything on Castor."

Castor and two Arabians are the only horses that have completed three of these rides. Castor is a full brother to Eudora 0672, placed by a visiting committee of the Morgan Horse Club in 1920 as the second best brood mare on the farm, giving precedence only to her dam, Babe.

Dolly 02949, a registered Morgan mare that finished sixth in the 1920 endurance ride, was bred by the U. S. Morgan Horse Farm on the remount plan. She was sired by Dewey 6481, a full brother to Bennington 5693, and he was bred by the farm.

Gladstone 6922, the registered Morgan gelding that won second place in the 1922 endurance ride, was bred by the U. S. Morgan Horse

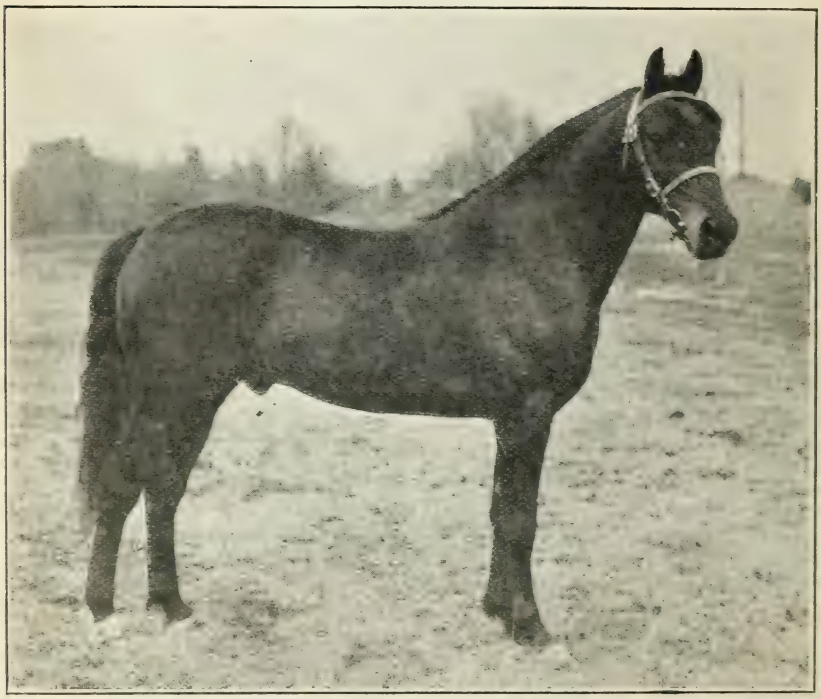

FIG. 12.—Castor 5833. Morgan gelding. Successful competitor in three endurance rides.

Farm. He was sired by General Gates, and his dam was Minnehaha 01760, a mare obtained from the State of Washington. Minnehaha was a half sister to Troubadour of Willowmoor, the present premier sire at the farm. This mare was killed by lightning during the summer of 1921, but the U. S. Morgan Horse Farm is fortunate in having two of her daughters with which to perpetuate the good qualities of the family. Gladstone finished the ride in excellent condition, receiving a score on this of 56, the same as that given the winner. He was only three points behind the winner on time score. In his official record appears this notation after Gladstone's name, in the space for remarks on condition at the end of the ride: "No remarks. Sound as when started."

Table 1 gives a comparison of the total number of purebreds of each of the three principal breeds which competed in the endurance rides of 1919, 1920, 1921, and 1922:

TABLE 1.—*Number of purebred horses of three principal breeds which started and finished in the official endurance rides, 1919 to 1922, inclusive.*

Breed.	1919		1920		1921		1922		Total.		
	Started.	Finished.	Started.	Finished.	Started.	Finished.	Started.	Finished.	Started.	Finished.	Per cent finished.
Morgans	4	2	4	2	1	1	2	1	11	6	54.55
Arabs	5	3	6	2	1	1	1	0	13	6	46.15
Thoroughbreds	0	0	4	1	8	2	4	2	16	5	31.25
Total	9	5	14	5	10	4	7	3	40	17	42.50

FIG. 13.—Gladstone 6922. The Morgan gelding placed second in the 1922 endurance ride.

FIVE LUMBAR VERTEBRÆ.

Post-mortem examinations of Morgan horses have revealed only five lumbar vertebræ, whereas most horses have six. General Gates 666. Donald 5224, Dude 4673, and a weanling colt sired by Troubadour of Willowmoor 6459 out of Lady Lyndon 03342 possessed this characteristic. Other things being equal, a back with 23 vertebræ should carry weight more easily than one with 24, and it is probable that this explains in part why Castor and Gladstone were able to

carry the same weight as readily as larger horses. A short loin is generally associated with a short coupling, which in turn denotes easy keeping qualities and the ability to withstand a long trip without becoming noticeably "tucked up."

USES FOR MORGAN HORSES.

Morgan mares do farm work on the U. S. Morgan Horse Farm. Morgans walk much faster than draft horses; they generally trot with an empty wagon, and they eat less feed. The U. S. Morgan Horse Farm has a striking illustration of these characteristics in a Morgan gelding weighing 1,100 pounds that has worked on the farm for several years as mate to a 1,450-pound draft gelding. The draft gelding is an extra good horse, but the Morgan is the better horse of the pair to-day. He has been given no advantage over the draft gelding, does his full share of the work, and stays in better condition on less feed. He is quicker, stands heat much better, and makes a good carriage horse in an emergency.

MORGANS AS SADDLE HORSES.

As pleasure saddle horses Morgans are in demand on account of their great intelligence and hardiness. They generally have a smart, alert walk, an easy trot, and a smooth, collected canter. Morgans have made a good reputation with the cattlemen of the South and West as cow horses. They have the intelligence and courage to "hold" a steer after it has been roped. Morgan stallions crossed on the proper type of range mares are said to produce the ideal cow horse.

The great reputation made by the First Vermont Cavalry in the Civil War is a matter of record. This regiment was mounted on Morgan horses, and official reports made to the War Department stated that the horses in this organization stood the hardships of the campaigns better than any others. Their short, strong legs, round, full-muscled bodies, and beautiful heads called forth universal admiration. Hardiness and endurance always have been and continue to be the prime essentials of a cavalry horse, and it is doubtful whether any breed excels the Morgan in the proper combination of all the characteristics demanded in such a horse.

The police horses of New York City have a national reputation for their uniformity of type, color (all being bays), good looks, intelligence, and altogether suitability for the job. They are probably nearer the type of good-sized Morgans than any other present-day American breed. In fact, Jetmore, a U. S. Morgan Horse Farm product, won first prize at both the Brooklyn and New York shows in 1922 as best police horse, when shown with the pick of the New York police department horses, of which he is one. (See Fig. 14.)

FIG. 14.—Registered Morgan gelding awarded first prize for mounted-police horses at the Brooklyn and New York spring horse shows in 1922. Bred at the Morgan Horse Farm.

DEMAND FOR MORGAN HORSES.

From January 1, 1920, to December 31, 1922, requests for 305 Morgan horses were received at the U. S. Morgan Horse Farm from 41 States, as tabulated in the following statement:

TABLE 2.—*Number of requests, by States, received at U. S. Morgan Horse Farm for Morgan horses, 1920 to 1922, inclusive.*

State.	Saddle and driving horses.	Farm horses and breeding stock.	Stallions.	Total.	State.	Saddle and driving horses.	Farm horses and breeding stock.	Stallions.	Total.
Alabama	1			1	New Hampshire	6	2		8
Arizona	1		1	2	New Jersey	7	4		11
California			1	1	New Mexico			2	2
Colorado			2	2	New York	25	25	11	61
Connecticut	12	4		16	North Carolina	2			2
Delaware		2		2	Ohio	2	1	1	4
District of Columbia		2		2	Oklahoma		2	1	3
Florida	2		1	3	Oregon			1	1
Georgia		2		2	Pennsylvania	7	9	1	17
Illinois	1	10	2	13	Rhode Island		6		6
Iowa	1	4	1	6	South Dakota			1	1
Kentucky	1			1	Texas			3	3
Louisiana	1	1	1	3	Utah			1	1
Maine	2	2	2	6	Vermont	12	2	2	16
Maryland	2	6	1	9	Virginia		2	2	4
Massachusetts	25	8		33	Washington		10	2	12
Michigan		12	2	14	West Virginia			1	1
Minnesota		1	2	3	Wisconsin		12	4	16
Missouri		4	4	8	Wyoming			2	2
Montana			1	1					
Nebraska		2	1	3	Total	110	137	58	305
Nevada		2	1	3					

In addition, inquiries have been received from the Provinces of Quebec, Ontario, and Alberta, Canada, and from Cuba, Porto Rico, Central America, South America, Japan, and China. As will be noted, the largest demand for saddle horses comes from the Eastern States, while the call from the West indicates an increasing interest in purebred breeding stock. The foregoing figures do not include many requests that have been received for information regarding the Morgan breed, coming from every section of the country.

Thus, it is apparent that the adaptability and value of the Morgan is becoming more and more recognized. The information given above shows a general widespread need of high-class light horses, and the versatile Morgan is well fitted to fill that need. Stallions are in demand particularly for grading up native stock in foreign countries, owing to their ability to adapt themselves to any environment, and to their remarkable prepotency. Many calls for registered stallions have also been received for use on common stock throughout the Western States for the production of saddle horses for ranch use. They are in demand for police and cavalry mounts, as pleasure saddle horses, and for polo. They have been requested from every section of the country for general farm work.

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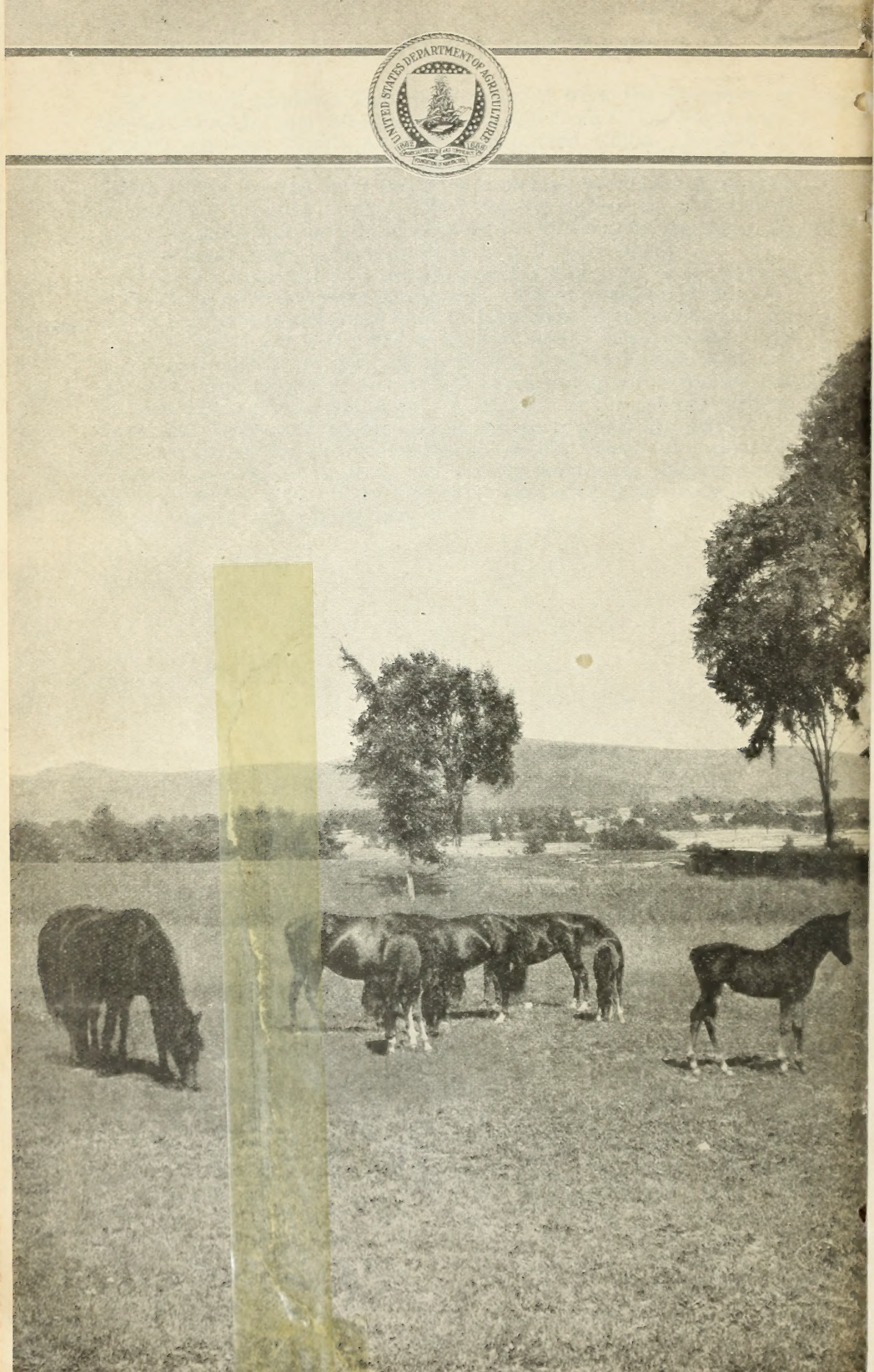
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